# THE WHITE HOUSE Office of the Press Secretary

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## FACT SHEET: What Climate Change Means for Pennsylvania and the Northeast



Today, the Obama Administration released the third U.S. National Climate Assessment — the most comprehensive scientific assessment ever generated of climate change and its impacts across every region of America and major sectors of the U.S. economy. The findings in this National Climate Assessment underscore the need for urgent action to combat the threats from climate change, protect American citizens and communities today, and build a sustainable future for our kids and grandkids.

The National Climate Assessment is a key deliverable of President Obama's Climate Action Plan to cut carbon pollution, prepare America's communities for climate-change impacts, and lead international efforts to address this global challenge. Importantly, the plan acknowledges that even as we act to reduce the greenhouse-gas pollution that is driving climate change, we must also empower the Nation's states, communities, businesses, and decision makers with the information they need prepare for climate impacts already underway.

The Obama Administration has already taken a number of steps to deliver on that commitment to states, regions, and communities across America. In the past year alone, these efforts have included: establishing a Task Force of State, Local, and Tribal Leaders on Climate Preparedness and Resilience to advise the Administration on how the Federal Government can respond to the needs of communities nationwide that are dealing with the impacts of climate change; launching a Climate Data Initiative to bring together extensive open government data with strong commitments from the private and philanthropic sectors to develop planning and resilience tools for communities; and establishing seven new "climate hubs" across the country to help farmers and ranchers adapt their operations to a changing climate.

**PENNSYLVANIA** is part of the U.S. National Climate Assessment U.S. Northeast Region. The regional phenomena identified by the Assessment may not occur in every state that is part of a particular region. According to the third U.S. National Climate Assessment Highlights report:

"Sixty-four million people are concentrated in the Northeast. The high-density urban coastal corridor from Washington, D.C., north to Boston is one of the most developed environments in the world. It contains a massive, complex, and long-standing network of supporting infrastructure. The Northeast also has a vital rural component, including large expanses of sparsely populated but ecologically and agriculturally important areas.

Although urban and rural regions in the Northeast are profoundly different, they both include populations that are highly vulnerable to climate hazards and other stresses. The region depends on aging infrastructure that has already been stressed by climate hazards including heat waves and heavy downpours. The Northeast has experienced a greater recent increase in

extreme precipitation than any other region in the U.S.; between 1958 and 2010, the Northeast saw more than a 70% percent increase in the amount of precipitation falling in very heavy events (defined as the heaviest 1% of all daily events). This increase, combined with coastal and riverine flooding due to sea level rise and storm surge, creates increased risks. For all of these reasons, public health, agriculture, transportation, communications, and energy systems in the Northeast all face climate-related challenges." (NCA Highlights, p. 70)

#### Regional Findings of the Third U.S. National Climate Assessment: NORTHEAST

- "Heat waves, coastal flooding, and river flooding will pose a growing challenge to the region's environmental, social, and economic systems. This will increase the vulnerability of the region's residents, especially its most disadvantaged populations.
- Infrastructure will be increasingly compromised by climate-related hazards, including sea level rise, coastal flooding, and intense precipitation events.
- Agriculture, fisheries, and ecosystems will be increasingly compromised over the next century by climate change impacts. Farmers can explore new crop options, but these adaptations are not cost- or risk-free. Moreover, inequities exist in adaptive capacity, which could be overwhelmed by changing climate.
- While a majority of states and a rapidly growing number of municipalities have begun to incorporate the risk of climate change into their planning activities, implementation of adaptation measures is still at early stages." (NCA, Ch. 16: Northeast)

### <u>Selected Findings and Information from the Third U.S. National Climate Assessment</u> Relevant to PENNSYLVANIA

- Water: "Throughout the Northeast, populations are also concentrated along rivers and their flood plains. In mountainous regions, including much of West Virginia and large parts of Pennsylvania, New York, Vermont, and New Hampshire, more intense precipitation events will mean greater flood risk, particularly in valleys, where people, infrastructure, and agriculture tend to be concentrated." (Ch. 16: Northeast)
- Energy: "Warmer winters will decrease the amount of natural gas required to heat buildings, especially in the Northeast, Midwest, and Northwest. Rising sea levels, combined with normal and potentially more intense coastal storms, an increase in very heavy precipitation events, and local land subsidence, threaten coastal energy equipment as a result of inundation, flooding, and erosion." (NCA, Ch. 4: Energy)
- Health: "During extreme heat events, nighttime temperatures in the region's big cities are generally several degrees higher than surrounding regions, leading to increased heat-related death among those less able to recover from the heat of the day. Since the hottest days in the Northeast are often associated with high concentrations of ground-level ozone and other pollutants, the combination of heat stress and poor air quality can pose a major health risk to vulnerable groups: young children, the elderly, and those with pre-existing health conditions including asthma." (NCA, Ch. 16: Northeast)

- **Heat Waves:** "Extreme heat events have long threatened public health in the United States. Many cities, including St. Louis, Philadelphia, Chicago, and Cincinnati, have suffered dramatic increases in death rates during heat waves. Extreme summer heat is increasing in the United States, and climate projections indicate that extreme heat events will be more frequent and intense in coming decades. However, early action provides the largest health benefits. There is evidence that heat-health early warning systems have saved lives and money in U.S. cities like Philadelphia, PA." (NCA, Ch. 9: Health)
- Flood Risk: "Throughout the Northeast, populations are also concentrated along rivers and their flood plains. In mountainous regions, including much of West Virginia and large parts of Pennsylvania, New York, Vermont, and New Hampshire, more intense precipitation events will mean greater flood risk, particularly in valleys, where people, infrastructure, and agriculture tend to be concentrated." (NCA, Ch. 16: Northeast)
- Adaptation: Pennsylvania has "enacted polices to encourage the use of green infrastructure and ecosystem-based approaches for managing storm water and flooding." (NCA, Ch. 28: Adaptation)

### **Examples of Efforts Underway in PENNSYLVANIA to Address Climate Change**

In **PENNSYLVANIA**, many efforts are already underway to mitigate and respond to the impacts of climate change, including:

## Preparing Communities for the Consequences of Climate Change:

Many important preparedness, resilience, and adaptation efforts are already being led by local, state, and regional entities across the country. Mechanisms being used by local governments to prepare for climate change include: land-use planning; provisions to protect infrastructure and ecosystems; regulations related to the design and construction of buildings, road, and bridges; and preparation for emergency response and recovery. These local adaptation planning and actions are unfolding in municipalities of different sizes, and regional agencies and regional aggregations of governments are also taking actions. And States have also become important actors in efforts related to climate change.

• Mayor Michael Nutter (Philadelphia, PA) serves on the President's State, Local and Tribal Leaders Task Force for Climate Preparedness and Resilience. Mayor Nutter has shown his strong commitment to sustainability though the Greenworks program which integrates sustainability work across city government. In partnership with the DOE, under Mayor Nutter's leadership the City of Philadelphia has advanced building energy efficiency and solar programs. The Philadelphia Water Department has also worked closely with the EPA on innovative green stormwater management infrastructure. Through Greenworks Philadelphia has made progress mitigating greenhouse gas emissions, and is currently working with municipal agencies on preparing for the changing climate.

#### **Cutting Carbon Pollution in PENNSYLVANIA:**

In 2012, power plants and major industrial facilities in Pennsylvania emitted more than 140 million metric tons of carbon pollution—that's equal to the yearly pollution from more than 30 million cars. Through the Climate Action Plan and state initiatives, there are many efforts already underway to mitigate and respond to the impacts of climate change in Pennsylvania, including:

- *Investing in Clean Energy*: Since President Obama took office, the U.S. increased solarelectricity generation by more than ten-fold and tripled electricity production from wind power. In Pennsylvania, renewable energy generation from wind, solar, and geothermal sources increased nearly 100 percent. Since 2009, the Administration has supported tens of thousands of renewable energy projects throughout the country, including more than 1,154 in Pennsylvania, generating enough energy to power more than 170,000 homes and helping Pennsylvania meet its own goal of generating 18 percent of its electricity from renewable energy sources by 2021.
- *Improving Efficiency*: Using less energy to power our homes, businesses and vehicles is critical to building a clean and secure energy future. President Obama has made essential investments in research and development for energy efficiency advances, and set new standards to make the things we use every day from cars to microwaves more efficient.
  - o President Obama established the toughest fuel economy standards for passenger vehicles in U.S. history. These standards will double the fuel efficiency of our cars and trucks by 2025, saving the average driver more than \$8,000 over the lifetime of a 2025 vehicle and cutting carbon pollution.
  - Since October 2009, the Department of Energy and the Department of Housing and Urban Development have jointly completed energy upgrades nearly two million homes across the country, saving many families more than \$400 on their heating and cooling bills in the first year alone.
  - As part of the President's Better Buildings Challenge, Pittsburgh committed to reducing energy intensity 20 percent by 2020 in 1.77 million square feet of its buildings. Allegheny College in Meadville committed to reducing intensity by the same level for its 1.3 million square feet of building space. Philadelphia Housing Authority has also committed 20 percent reduction in energy intensity by 2020 in 7.3 million square feet of buildings in its authority. Action Housing, a multifamily residential partner, has committed to reduce energy intensity 20 percent in 10 years in 815 thousand square feet of affordable housing.

For more information about the third U.S. National Climate Assessment, please visit <a href="www.globalchange.gov">www.globalchange.gov</a> or contact <a href="mailto:engagement@usgcrp.gov">engagement@usgcrp.gov</a>.

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